

CLAIMS

[1] A data transfer control system comprising:

a host including a first interface;

a target including a second interface;

5 a converter for performing interconversion between the first and second interfaces;

and

an external control unit for controlling the converter,

wherein the converter includes

10 a command processing unit for issuing a command received from the host via the first interface to the target via the second interface,

a data transfer processing unit for performing data transfer between the host and the target while performing interconversion between the first and second interfaces,

15 a host-addressed status transfer unit for transferring status information generated for the received command to the host via the first interface, and

a target command processing judgment unit for performing command processing judgment at the target,

wherein the target command processing unit performs an operation of detecting completion of the data transfer and judging whether or not the data transfer has been
20 normally completed, a write operation of writing the status information on the host-addressed status transfer unit, a transfer operation of transferring the status information written on the host-addressed status transfer unit and a notifying operation of notifying a state of the target to the external control unit.

25 [2] The data transfer control system of claim 1, wherein the converter performs a

reexecuting operation of reexecuting, when an error is generated in command processing,
the command processing according to contents of the error.

[3] The data transfer control system of claim 2, wherein the command reexecuting
5 operation includes a reexecution number limiting operation of limiting a number of times
of reexecutions.

[4] The data transfer control system of claim 1, wherein the converter further
includes a switching unit for selectively switching an operation of the target command
10 processing judgment unit to be enable or disable.

[5] The data transfer control system of claim 1, wherein the converter issues,
regardless of an instruction from the host, an arbitrary command to the target at an
arbitrary timing.